## Amendments to the Claims

1. (original) A control method comprising:

traversing a die-strip through a plurality of substations of an in-line, backend, integrated circuit (IC) device assembly line;

automatically examining said die-strip at multiple locations within said plurality of substations using a plurality of automated vision camera systems;

collecting information regarding said examining from said plurality of automated vision camera systems and storing said information in a memory resident database of a central computer system; and

controlling processes of said plurality of substations using a common communication protocol and commands and data issued from said central computer system.

- 2. (original) A method as described in Claim 1 wherein said central computer system is a manufacturing execution system (MES).
- 3. (original) A method as described in Claim 1 wherein said common communication protocol is a version of the standard semi equipment communications standard/generic equipment model (SECS/GEM).
- 4. (original) A method as described in Claim 2 wherein said common communication protocol is a version of the standard semi equipment communications standard/generic equipment model (SECS/GEM).

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5. (original) A method as described in Claim 1 wherein said collecting information comprises:

communicating said information from said plurality of automated vision systems to an equipment cell controller; and

communicating said information from said equipment cell controller to said central computer system.

6. (original) A method as described in Claim 5 wherein said controlling comprises:

communicating said commands and data from said central computer system to said equipment cell controller; and

communicating said commands and data from said equipment cell controller to said plurality of substations.

7. (original) A method as described in Claim 1 wherein said plurality of substations comprise a front-of-line portion and an end-of-line portion and wherein said collecting information comprises:

communicating information from a first portion of said plurality of automated vision systems of said front-of-line portion to a first equipment cell controller;

communicating information from a second portion of said plurality of automated vision systems of said end-of-line portion to a second equipment cell controller; and

CYPR-PM01011 Examiner: Stevenson, A. Serial No.: 10/085,752 Group Art Unit: 2812 communicating said information from said first and second equipment cell

controllers to said central computer system.

8. (original) A method as described in Claim 7 wherein said controlling

comprises:

communicating first commands and data from said central computer

system to said first equipment cell controller;

communicating said first commands and data from said first equipment

cell controller to said front-of-line portion of said plurality of substations;

communicating second commands and data from said central computer

system to said second equipment cell controller; and

communicating said second commands and data from said second

equipment cell controller to said end-of-line portion of said plurality of

substations.

9. (original) A method as described in Claim 1 wherein said collecting

information further comprises determining a location of said die-strip by one of

said automated vision camera systems identifying a unique code associated with

said die-strip.

10. (original) A method as described in Claim 1 wherein said traversing is

controlled by said central computer system.

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substations further comprise:

a test portion integrated with said end-of-line portion; and

a finish portion integrated with said test portion.

39. (new) A method as described in Claim 7 wherein said front-of-line

portion comprises: a die-attach substation; a cure substation; a first plasma

substation; a bond substation and a second plasma substation.

40. (new) A method as described in Claim 7 wherein said end-of-line

portion comprises: a mold substation; a post mold cure substation; a ball attach

substation; a saw substation; and a sort substation.

41. (new) A method as described in Claim 38 wherein said finish portion

comprises: a marking substation; a final visual inspection substation; and a tape

and reel substation.